



STEP A

REACTING A METAL PRECURSOR  
AND A SURFACTANT  
IN A SOLVENT  
TO FORM A METAL-SURFACTANT  
COMPLEX SOLUTION

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STEP B

ADDING THE METAL-SURFACTANT  
COMPLEX SOLUTION  
TO A SECOND SOLUTION CONTAINING  
A SECOND SOLVENT,  
A SURFACTANT AND A REAGENT  
AT A CONTROLLED INJECTION RATE  
USING A SYRINGE PUMP

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STEP C

ALLOWING THE RESULTING  
REACTION MIXTURE  
TO PRODUCE NANORODS

103

STEP D

SEPARATING AND PRECIPITATING  
THE NANORODS  
BY ADDING A POOR SOLVENT

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STEP E

RETRIEVING THE NANORODS  
BY CENTRIFUGATION

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**FIG. 1**